PTO-1390 (Rev. 07-2005)
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TRANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER 63988 (71719)									
DESIGNATED/ELECTED	U.S. APPLICATION NO. (if known) see 37 CFR 1.5)									
INTERNATIONAL APPLICATION NO.	PRIORITY DATE CLAIMED									
PCT/JP2004/001940	INTERNATIONAL FILING DATE 19 February 2004	JP 2003-070544 filed March 14, 2003 JP 2003-294680 filed August 18, 2003								
TITLE OF INVENTION		JP 2003-294679 filed August 18, 2003								
CHEMICAL DIFFUSION SYSTEM, CHEMICAL DIFFUSION APPARATUS, CHEMICAL DIFFUSION UNIT AND CHEMICAL CARTRIDGE										
APPLICANT(S) FOR DO/EO/US Kiyoshi ITO, et al.										
	tes Designated/Elected Office (DO/EO/	US) the following items and other information:								
1. x This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.										
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.										
3. X This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.										
4. The US has been elected (Article 31).										
5. x A copy of the International Application as filed (35 U.S.C. 371 (c)(2))										
a. x is attached hereto (required only if not communicated by the International Bureau).										
b. has been communicated by the International Bureau.										
c. is not required, as the application was filed in the United States Receiving Office (RO/US).										
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).										
a. is attached hereto.	• •	·								
b. has been previously submitted	under 35 U.S.C. 154(d)(4).	·								
7. Amendments to the claims of the In	ternational Application under PCT Artic	cle 19 (35 U.S.C. 371(c)(3))								
a. are attached hereto (required o	nly if not communicated by the Internat	tional Bureau).								
b. have been communicated by the	b. have been communicated by the International Bureau.									
c. have not been made; however,	c. have not been made; however, the time limit for making such amendments has NOT expired.									
d. have not been made and will no	d. have not been made and will not be made.									
8. An English language translation of	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9. An oath or declaration of the invent	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).									
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).										
Items 11 to 20 below concern docum	nent(s) or information included:									
11. x An Information Disclosure Statem	nent under 37 CFR 1.97 and 1.98 (ald	ong with PTO/SB-08 – with citations).								
12. An assignment document for recon	ding. A separate cover sheet in compli	ance with 37 CFR 3.28 and 3.31 is included.								
13. x A preliminary amendment.										
14. An Application Data Sheet under 3	37 CFR 1.76.									
15. A substitute specification.										
16. A power of attorney and/or change	e of address letter.									
17. A computer-readable form of the s	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.									
18. A second copy of the published In	A second copy of the published International Application under 35 U.S.C. 154(d)(4).									
A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).										

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U.S. APPLICATIO	N NO. (if known, see	75 P. 15 A	INTERNATIONAL APPLICATION NO. PCT/JP2004/001940			ATTORNEY'S DOCKET NUMBER 63988 (71719)				
20. X Other	items or informa	(WO 2 copy o Ninete	Copy of PCT/RO/101 (with English translation): cover page of International Publication (WO 2004/080169 A1); copy of International Search Report (with English translation); copy of Form PCT/IB/304; copy of Form PCT/IB/308; copy of Form PCT/ISA/237; Nineteen (19) sheets of Fig. 1 – Fig. 19c; Certificate of Express Mailing; and return receipt postcard.							
The foll	lowing fees have	e been submitt	ed			CALCULATION	ıs	PTO USEONLY		
21. x Basic national fee (37 CFR 1.492(a))					\$ 300.0					
22. X Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 200.0	00				
23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500					\$ 500.00					
	TOTAL OF 21, 22					\$ 1,000.0	00			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							:.			
Total Sheets	Extra Sheets		additional 50 or fraction up to a whole number)	<u> </u>	RATE					
89 - 100 =	/50 =	/50 = x \$250.00			x \$250.00	\$				
			e, examination fee, or the (37 CFR 1.492(h)).	e oath	or declaration	\$ 130.00				
CLAIMS		MBER FILED					, .			
Total clair		66 - 20 =	46	×	50.00	2,300.00				
Independent	L	2 - 3 =	L	×		0.00				
MOLTIPLE DEP	ENDENT CLAIM(S	(ir applicable)	TOTAL OF A	<u> </u>	E CALCUL ATIONS -	\$ 3,430.0				
TOTAL OF ABOVE CALCULATIONS =						\$ 3,430.0	<i>,</i> 0	-		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.										
SUBTOTAL =					\$ 3,430.0	00				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$					
TOTAL NATIONAL FEE =					\$ 3,430.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$					
TOTAL FEES ENCLOSED =					\$ 3,430.00		430.00			
				-		Amount to be refunded:	\$			
						Amount to be charged	\$			

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JC20 Rec'd PCT/PTO 1 4 SEP 2003

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JC20 Rec'd PCT/PTO 1 4 SEP 2005

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 63988 (71719)

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 654389364 US in an envelope addressed to:

> MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

September 14, 2005 Date

Nicole McKinnon Typed or printed name of person signing Certificate (617) 439-4444 Registration Number, if applicable

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Fee Transmittal (1 page);

Preliminary Amendment (32 pages);

Transmittal Letter to the United States Designated-Elected Office (3 pages);

70 pages consisting of specification, claims & abstract;

19 sheets of Fig. 1 - Fig. 19c;

Copy of PCT/RO/101 (with English translation);

Copy of cover page of International Publication (WO 2004/080169 A1);

Copy of International Search Report (with English translation);

Copy of PCT/IB/304; copy of Form PCT/IB/308; copy of Form PCT/ISA/237;

Information Disclosure Statement (2 pages);

IDS (Citation) by Applicant (11 References);

Charge \$3,430.00 to deposit account 04-1105; and return receipt postcard.

JC20 Rec'd PCT/PTO 14 SEP 2009

PTO/SB/17 (12-04v2)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number. Complete_if_Known Effective on 12/08/2004. Not Yet Assigned Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). **Application Number** FEE TRANSMITTAL Concurrently Herewith Filing Date Kiyoshi Ito First Named Inventor For FY 2005 **Examiner Name** Not Yet Assigned Applicant claims small entity status. See 37 CFR 1.27 N/A Art Unit TOTAL AMOUNT OF PAYMENT 63988 (71719) 3,430.00 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Credit Card Money Order Check None Other (please identify): Deposit Account Deposit Account Number: 04-1105 Deposit Account Name Edwards & Angell, LLP For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) √ Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES EXAMINATION FEES** SEARCH FEES **Small Entity Small Entity Small Entity Application Type** Fee (\$) Fee (\$) Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) <u>Fee (\$)</u> Utility 200 300 150 500 250 100 Design 200 100 100 50 130 65 Plant 200 100 300 150 160 80 Reissue 300 150 500 250 600 300 Provisional 200 100 O 0 0 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 Fee (\$) **Total Claims** Extra Claims **Multiple Dependent Claims** 66 Fee Paid (\$) Fee (\$) Indep. Claims Extra Claims - 3 = 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). **Extra Sheets** Number of each additional 50 or fraction thereof Fee Paid (\$) Fee (\$) - 100 = (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): 1631 Basic National Stage fee 300.00 1632 National Stage Search Fee - all other situations 500.00 1633 National Stage Examination Fee - all other ... 200.00 1615 National Stage claims - extra total (over twenty) 2,300.00 1617 Search fee, examination fee or oath or 130.00 SUBMITTED BY Registration No Signature 36,984 Telephone (617) 439-4444 Name (Print/Type) ∂6hn J. Penny Date September 14, 2005 I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 654389364 US, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown Dated: September 14, 2005 以 を Nicole McKinnon) Signature: